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# THE *GYRINIDÆ* OF JAPAN

By

MOTOMU TAKIZAWA

About 50 years ago D. SHARP published his paper about the water-beetles of Japan in the Trans. Ent. Soc. Lond., 1873 and 1884, recording seven species which belong to the *Gyrinidae*. During these long days several members of the *Gyrinid*-species have been added to our faunal region, and also a considerable number of the material has been captured from hitherto un-investigated localities. Therefore, in the following paper I intended to reexamine the *Gyrinid*-fauna of this country. To enable me to do this Prof. Dr. S. MATSUMURA entrusted me the whole of the material belonging to this family which are preserved in the Entomological Museum of the Hokkaido Imperial University, and under his kind guidance I pursued this work, and to whom I must express my grateful acknowledgment in this occasion. Also to Mr. S. KUWAYAMA of the Hokkaido Agricultural Experiment Station, I must tender my cordial thanks for his kind suggestion and constant encouragement during the course of my study.

## Historical Sketch

1866. For the first record of our *Gyrinid*-fauna V. DE MOTSCHULSKY described one new species in the Bull. Soc. Nat. Mosc: *Gyrinus curtus* MOTSCHULSKY.

1873. D. SHARP in his paper "The Water Beetles of Japan" published in the Trans. Ent. Soc. Lond., recorded two new species from Japan under the names of *Dineutes marginatus* and *Gyrinus japonicus* by the materials collected by G. LEWIS.

1879. G. LEWIS enumerated three *Gyrinid*-species in the Cat. Col. Jap. Archipel, namely *Dineutes marginatus* SHARP, *Gyrinus curtus* MOTSCHULSKY and *G. japonicus* SHARP.

1882. The fundamental work of the regarding family was published by M. RÉGIMBART under the title of "Essai Monographique de la Famille des *Gyrinidae*" in the Ann. Soc. Ent. Fr., 1882-1907. He described three new species, *Dineutes Mellyi* (1882), *Gyrinus curtus* and *G. Gestroi* (1883) together with the redescription of already known species from Japan.

1884. In this year D. SHARP again published "The Water-beetles of Japan" in the Trans. Ent. Soc. Lond., in this paper he described three new *Orectochilus*-species, under the names of *Orectochilus agilis*, *O. punctipennis* and *O. regimbarti*, and he regarded *G. curtus* RÉGIMBART as a synonym of *G. japonicus* SHARP.

1887. H. J. KOLBE recorded in the Archiv. f. Naturg. that the *Gyrinus japonicus* SHARP was captured in Korea.

In the same year "Cat. Col. Jap." was published by SCHÖNFELDT. In this paper he enumerated seven *Gyrinid*-species as occurring in our faunal region: *Dineutes marginatus* SHARP, *Gyrinus curtus* MOTSCHULSKY, *G. Gestroi* RÉGIMBART, *G. japonicus* SHARP, *Orectochilus agilis* SHARP, *O. punctipennis* SHARP and *O. regimbarti* SHARP.

1905. In his well known work "Thousand Insects of Japan, Vol. III", S. MATSUMURA dealt with four *Gyrinid*-species, namely *Dineutes indicus* AUBÉ, *D. marginatus* SHARP, *Gyrinus curtus* MOTSCHULSKY and *G. japonicus* SHARP; among these the record of the *D. indicus* AUBÉ seems to be the first from our faunal region, but as I discuss later again, it may have been a mis-identification of *D. mellyi* RÉGIMBART.

1911. S. MATSUMURA recorded *Gyrinus curtus* MOTSCHULSKY from Saghalien in the Jour. Agr. Tohoku, Imp. Univ. IV for the first time.

1916. The same author published "Catalogus Insectorum Japonicum Vol. II, Coleoptera". In this, he enumerated all of the hitherto known species.

In the same year A. ZIMMERMANN newly recorded three *Gyrinid*-species from Formosa by the collection of H. SAUTER in the Archiv f. Naturg., A, 5: *Dineutes australis* FABRICIUS, *D. Mellyi* RÉGIMBART and *D. marginatus* SHARP.

1924. H. OKAMOTO in the Bull. Agr. Exp. Sta., Chosen, Vol. I, No. 2, recorded *Dineutes marginatus* SHARP as occurring in Querpárt Island as well as in Korea.

1931. K. KAMIYA in the Mushi no Kai Kenkyu-hokoku No. 1, redescribed three *Orectochilus*-species and recorded *O. punctipennis* SHARP as occurring also in Formosa.

## Family GYRINIDAE

### Key to the Subfamilies

- 1'' Mesothoracic episternum reaching to the epipleura of the wing-case. ... .. *Orectochilinae*
- 1' Mesothoracic episternum not reaching to the epipleura of the wing-case.
- 2'' The longest part of the hind coxa situated nearer to the mesial line of the body. ... *Enhydrinae*

- 2' The longest part of the hind coxa situated nearer to the epipleura of the wing-case than to the mesial line of the body. ... .. *Gyrininae*

### Subfamily **Enhydrinae**

#### Genus ***Dineutes*** M'LEAY

*Dineutes* M'LEAY, Ann. Jav. ed. I, p. 30 (1825).

#### Key to the Species

- 1'' Body long oval; wing-case (♂) with a short denticle at the outer apical angle.  
 2'' Upper surface of the body black, with a greenish luster; wing-case truncated at the apex, (♂) with a short denticle at the outer apical angle. 7.5-9.5 mm. ... .. *australis* FABRICIUS  
 2' Upper surface metallic black, with a marginal yellow stripe; wing-case (♀ ♂) with two denticles at the apex. 8-9.5 mm. ... .. *marginatus* SHARP  
 1' Body round oval; upper surface iridescent greenish black; wing-case without any denticle at the outer apical angle. 9-11 mm. ... .. *mellyi* RÉGIMBART

#### 1. ***Dineutes australis*** FABRICIUS

*Gyrinus australis* FABRICIUS, Syst. Ent., p. 235 (1775).

*Gyrinus rufipes* FABRICIUS, Syst. El., I, p. 276 (1801).

*Dineutes limbatus* M'LEAY, Ann. Jav., ed. I, p. 30 (1825).

Hab.—Loochoo (Miyako-jima, 3 ex., V. 1909, S. MATSUMURA; 3 ex., S. SAKAGUCHI; 1 ex., S. OGASAWARA) Formosa (Taichu, 1 ex., 27/VI. 1906, S. MATSUMURA; Koshun, 15 ex., 7/VII. S. MATSUMURA; Kanshirei, 24 ex., 14/IV. 1907, S. MATSUMURA; Kanshirei, 6 ex., 15/IV. 1907, S. MATSUMURA; Kanshirei, 1 ex., 11/V. 1908, I. NITOBE; 3 ex., XII. 1911, S. MATSUMURA).

Distribution—Australia, Japan, Malay Archipelago, New Caledonia, New Zealand, Philippines.

Japanese Name: *Shirikire-o-mizusumashi*.

#### 2. ***Dineutes marginatus*** SHARP

*Dineutes marginatus* SHARP, Trans. Ent. Soc. Lond., p. 56 (1873).

*Dineutes quadripina* FAIRMAIRE, Ann. Soc. Ent. Fr., (5) VIII, p. 88 (1878).

Hab.—Saghalien (after T, YOKOYAMA, Nippon no Kochu, p. 138, 1930) Hokkaido (Sapporo, 2 ex., 16/VI. 1904, S. MATSUMURA; Sapporo, 2 ex., 12/X. 1904, S. MATSUMURA; Sapporo, 3 ex., 10/VI. 1931, M. TAKIZAWA) Honshu (Tokyo, 1 ex., VII. 1903, S. MATSUMURA; Maiko, 3 ex., VII. 1903, S. MATSUMURA; Shizuoka, 1 ex., 24/VIII. 1912, H. TAKABAYASHI; 2 ex., 1916, C. TERANISHI; Shizuoka, 2 ex., 17/VII. 1917, H. TAKABAYASHI; Naoetsu, 1 ex., 27/VII. 1927, M. TAKIZAWA; Nagano, 2 ex., VII. 1928, M. TAKIZAWA; Nagano, 3 ex., 2/VIII. 1928, M. TAKIZAWA; Niigata, 3 ex., M. NAKAMURA; Takasago, 6 ex., S. MATSUMURA; Aomori, 2 ex., S. MATSUMURA; 3 ex., S. KUWAYAMA; Tokyo 3

ex.) Shikoku (Iyo, 2 ex., 28/VII. 1916, S. MATSUMURA; Iyo, 1 ex., S. MATSUMURA) Loochoo (1 ex., VIII. 1904, MIYAGI; Miyako-jima, 4 ex., V. 1909, S. MATSUMURA; Miyako-jima, 6 ex., S. SAKAGUCHI; 7 ex., S. SAKAGUCHI) Formosa (Tansui, 2 ex., 24/VII. 1906, S. MATSUMURA; Tainan, 2 ex., 9/XII. 1909, M. ISHIDA; 4 ex., 1/II. 1912, S. MATSUMURA; Toen, 1 ex., X. 1914, INAMURA; Koshun, 1 ex., 25/IV-25/V. 1918, J. SONAN, K. MIYAKE and M. YOSHINO; Kotosho, 1 ex., 10/III-14/IV. 1920, T. OKUNI) Korea (Suigen, 4 ex., 5-15/VII. 1922, T. UCHIDA and S. TAKANO; Kaishu, 1 ex., 28/III. 1923, YUUKI; Taiyudong, 4 ex., 1925, E. GALLOIS; Shorinri, 1 ex.).

Distr.—China, East Indies, India, Japan, Java, Manchuria.

J. N.: *O-mizusumashi*.

### 3. *Dineutes mellyi* RÉGIMBART

*Dineutes Mellyi* RÉGIMBART, Ann. Soc. Ent. Fr., (6), II, p. 399 (1882).

*Dineutes indicus* MATSUMURA (nec AUBÉ), Thous. Ins. Jap., Vol. III, p. 23 (1906).

*Dineutes insularis* RÉGIMBART, Ann. Soc. Ent. Fr., LXXVI, p. 140 (1907).

Remarks: *Dineutes insularis* was described by A. RÉGIMBART (1907) by the specimens from Loochoo, while *D. mellyi* RÉGIMBART was recorded by A. ZIMMERMANN (1916) as occurring in Formosa by the specimens collected by H. SAUTER. For the comparison of these two species here I may quote a RÉGIMBART's description concerning to the former species; he writes that "Cet insecte n'est peut-être qu'une forme insulaire de *D. Mellyi* Rég.; il en diffère par la taille in general plus petite, par la forme un peu moins dilatée au milieu, moins gibbeuse à la région scutellaire, avec la sinuation externe des élytres encore plus effacée, par l'aspect plus opaque, la réticulation beaucoup plus imprimée et la ponctuation moins effacée et par la dent des fémurs antérieurs ♂ plus obtuse et moins saillante; les traces des sillons aux élytres sont beaucoup plus indiquées latéralement."

After my careful observations by the individuals from Formosa and Loochoo, I am unable to distinguish *D. mellyi* RÉGIMBART from *D. insularis* RÉGIMBART, and I consider that they may be but one species, varying considerably in individual respects.

*D. indicus* AUBÉ that is known as a species, which has distinctly striated wing-case, has been recorded by S. MATSUMURA from Formosa and Loochoo, but I could not find no such specimens in the collection of the Entomological Museum of the Hokkaido Imperial University. According to my opinion it may perhaps be a misidentification of *D. mellyi* RÉGIMBART.

Hab.—Loochoo (2 ex., VI. 1905, H. KUROIWA; Yonakuni, 1 ex., S. SAKAGUCHI) Formosa (Hoppo, 37 ex., 7/VIII. 1905, S. MATSUMURA; Otsubo, 2 ex., 2/V. 1907, S. MATSUMURA; Taipu, 1 ex., IX. 1910, T. SHIRAKI; Horisha, 1

ex., V-VIII. 1918, H. KAWAMURA; Baibara, 1 ex., 20/VII. 1925, H. KÔNO; Rimogan, 1 ex., 21/VII. 1929, S. MINOWA and C. WATANABE).

Distr.—China, India, Japan.

J. N.: *Okinawa-o-mizusumashi*.

### Subfamily Gyrininae

#### Genus *Gyrinus*

*Gyrinus* GEOFFROY, Ins. Par. I, p. 193 (1762).

#### Key to the Species

- 1'' Epipleurae of the prothorax and wing-case black with a metallic luster.
- 2'' Body much convex; mesosternum with a deep and broad longitudinal groove; the punctures on the wing-case being more distinct and larger. 4.4–5.6 mm. ... *gestroi* RÉGIMBART
- 2' Body less convex; mesosternum with a longitudinal groove which only deeply dented at its apical end; the punctation on the wing-case much smaller and indistinct. 5.2–7.4 mm. ... *japonicus* SHARP
- 1'' Epipleurae of the prothorax and wing-case reddish brown or dark brown, without a metallic luster; mesosternum brown or pitchy brown, with a shallow linear median groove. 5–6.8 mm. ... *curtus* MOTSCHULSKY
- a) Under surface of the body entirely pitchy brown. ... var. *fulvescens* TAKIZAWA

#### 4. *Gyrinus curtus* MOTSCHULSKY

*Gyrinus curtus* MOTSCHULSKY, BULL. MOSC., XXXIX, I, p. 165 (1866).

Hab.—Kurile (Sashiusu, 2 ex., 30/VII. 1927, K. DOI) Saghalien (Ikusagawa, 1 ex., 25/VIII. 1914, J. ADACHI and S. ISSHIKI; Toyohara, 1 ex., 24/VIII. 1914, J. ADACHI and S. ISSHIKI; Toyohara, 5 ex., 29/VIII. 1914, J. ADACHI and S. ISSHIKI; Toyohara, 2 ex., 24/IX. 1914, J. ADACHI and S. ISSHIKI; Kawakami, 2 ex., 30/VII. 1924, S. MATSUMURA) Hokkaido (Kotoni, 4 ex., 21/IV. 1904; Jyozankei, 5 ex., 23/V. 1904, M. ISHIDA; Sapporo, 5 ex., 11/VI. 1904, S. MATSUMURA; Misumae, 3 ex., 15/V. 1910, S. MATSUMURA; Sapporo, 1 ex., 28/V. 1931) Honshu (Nikko, 9 ex., 6–31/VI. 1911, S. MATSUMURA; Ono, 4 ex., 10/VI. 1911, S. MATSUMURA; Misaki, 4 ex., 18–21/VI. 1911, S. MATSUMURA; Gumma, 1 ex., 21/III. 1914, S. MATSUMURA; Hakkoda-san, 1 ex., 30/VIII. 1927, H. KÔNO) Shikoku (after S. MATSUMURA, Thous. Ins. Jap., Vol. III. p. 19, 1906; T. YOKOYAMA, Nippon no Kochu, p. 137, 1930) Kyushu (after S. MATSUMURA, l. c.; T. YOKOYAMA, l. c.).

Distr.—Japan.

J. N.: *Nami-mizusumashi*.

#### 4a. *Gyrinus curtus* MOTSCHULSKY var. *fulvescens* nov.

Distinguished from the typical specimen by the entirely reddish brown ven-

tral surface.

Hab.—Honshu (Suwa, 1 ex., 1911, S. MATSUMURA; Nagano, 1 ex., VIII. 1929, M. TAKIZAWA; Aomori, 2 ex.) (Type in the Ent. Mus. Hokk. Imp. Univ.).

#### 5. *Gyrinus gestroi* RÉGIMBART

*Gyrinus Gestroi* RÉGIMBART, Ann. Soc. Ent. Fr., (6) III, p. 165 (1883).

Hab.—Honshu (Osaka, 4 ex., IV. 1917, C. TERANISHI; Takasago, 3 ex., S. MATSUMURA; Tokyo, 1 ex., IV. 1918, C. TERANISHI; Nagano, 2 ex., 10/IV. 1928, M. TAKIZAWA) Shikoku (Iyo, 4 ex., 21/VI. 1911, S. MATSUMURA).

Distr.—Japan.

J. N.: *Ko-mizusumashi*.

#### 6. *Gyrinus japonicus* SHARP

*Gyrinus japonicus* SHARP, Trans. Ent. Soc. Lond., p. 55 (1873).

*Gyrinus curtus* RÉGIMBART, Ann. Soc. Ent. Fr., (6) III, p. 168 (1883).

Hab.—Hokkaido (after S. MATSUMURA, Thous. Ins. Jap., Vol. III, p. 21, 1906; T. YOKOYAMA, Nippon no Kochu, p. 137, 1930) Honshu (Iwakisan, 5 ex., 10/VII. 1913, T. ISSHIKI; Nagano, 3 ex., 6/IV. 1928, M. TAKIZAWA) Shikoku (Ehime, 4 ex., 29/XII. 1916, T. KATO) Kyushu (Jono, 2 ex., S. MATSUMURA) Korea (Saishuto, 1 ex., K. ICHIKAWA).

Distr.—Japan.

J. N.: *Hime-mizusumashi*.

### Subfamily *Orectochilinae*

#### Genus *Orectochilus*

*Orectochilus* LACORDAIRE, Fn. Ent. Paris, I, p. 344 (1835).

*Patrus* AUBÉ, Icon. Col., V, p. 397 (1836–1838).

#### Key to the Species

- 1'' Outer apical angle of the fore tibia acute.
- 2'' Upper surface jet-black; wing-case only pubescent at the lateral and posterior portions. 5.5 mm. ... .. *formosanus* TAKIZAWA
- 2' Upper surface dark sepia; wing-case densely pubescent. 5.3–6.1 mm. ... .. *punctipennis* SHARP
- 1' Outer apical angle of the fore tibia blunt.
- 3'' Labrum broad and semicircular. 6.25–7 mm. ... .. *agilis* SHARP
- 3' Labrum narrow and rather elongated. 8–9 mm. ... .. *regimbarti* SHARP

#### 7. *Orectochilus agilis* SHARP

*Orectochilus agilis* SHARP, Trans. Ent. Soc. Lond., p. 449 (1884).

Hab.—Honshu (Fuji, 1 ex., 23/VI. 1911, S. MATSUMURA; Tamagawa, 3 ex., 1/VI. 1913, H. TAKABAYASHI; Tamagawa, 6 ex., 1/VI. 1913, E. GALLOIS;

Tokyo, 1 ex.; Nakano, 2 ex., S. MATSUMURA; Shizuoka, 1 ex., 24/VII. 1928, C. WATANABE) Kyushu (after K. KAMIYA, Mushi no Kai Kenkyu-hokoku, No. 1. p. 14, 1931).

Distr.—Japan.

J. N.: *Tsumakiri-onaga-mizusumashi*.

### 8. *Orectochilus formosanus* sp. nov.

♂. Upper surface black; under surface largely pitchy black. Mouth-part, basal and terminal three joints of the antennae and the fore legs reddish brown; the middle and hind legs (except their coxae) more or less yellowish; abdomen dark brown, gradually changing to a light colour towards the extremity.

Head: highly shining, almost entirely devoid of pubescence except at the gena, nearly impunctate, but some quite fine punctures being recognizable at the apical and lateral parts; labrum broad, semicircular, not so producing forwards.

Thorax: pronotum scantily pubescent, shining, in the posterior part with regularly disposed, distinct punctations, anteriorly with the punctures closer and finer, at the discal part with very sparse and minute punctures and nearly devoid of pubescence. Wing-case pubescent excepting the discal part, seen from the sides obliquely truncated at the outer apical angle, the punctation more or less distinct than that of the pronotum. Scutellum smooth and shining, without puncture nor pubescence. Fore leg with the claws nearly in equal length with each other; the outer apical angle of the tibia being acute. Length 5.5; width 2.3 mm.

This species is very close to *O. punctipennis* SHARP; the difference in the colour of the body, however, are sufficient to separate these two species, and the density of the pubescence on the upper surface, together with the shape of the wing-case may be cited in substantiation of the differences. The comparison of these different points between these two species may be written as follows:

<i>O. formosanus</i>	<i>O. punctipennis</i>
1. Colour: Upper surface jet-black; under surface pitchy black.	1. Colour: Upper surface sepian black; under surface reddish brown.
2. Head: Pubescence nearly lacking.	2. Head: Pubescent except at the vertex.
3. Pronotum: Punctures distinct and rather larger, quite sparingly pubescent.	3. Pronotum: Punctures much finer, densely pubescent.



4. Wing-case: More tapering at the apical end; pubescence more sparse, lacking at the discal portion; punctures larger.

4. Wing-case: Not so tapering at the apical end; more uniformly and densely pubescent; punctures finer.

Hab.—Formosa (Daitonzan, 1 ♂, 8/XI. 1925, T. KANO) (Type in the Ent. Mus. Hokk. Imp. Univ.).

Distr.—Japan.

J. N.: *Taiwan-onaga-mizusumashi*.

#### 9. *Orectochilus punctipennis* SHARP

*Orectochilus punctipennis* SHARP, Trans. Ent. Soc. Lond., p. 449 (1884).

Hab.—Honshu (Nakano, 7 ex., VIII. 1906, S. MATSUMURA; Fuji, 4 ex., 23/VI. 1911, S. MATSUMURA; Iwate, 1 ex., T. OGASAWARA) Kyushu (after K. KAMIYA, Mushi no Kai Kenkyu-hokoku, No. 1, p. 16, 1931) Formosa (To-roen, 2 ex., 19/IV. 1907, S. MATSUMURA; 2 ex., 20/V. 1911).

Distr.—Japan.

J. N.: *Ko-onaga-mizusumashi*.

#### 10. *Orectochilus regimbarti* SHARP

*Orectochilus regimbarti* SHARP, Trans. Ent. Soc. Lond., p. 448 (1884).

Hab.—Honshu (Tamagawa, 1 ex., 11/IX. 1915, E. GALLOIS; Iwate, 2 ex., 1/VIII. 1920, T. OGASAWARA).

Distr.—Japan.

J. N.: *Onaga-mizusumashi*.

Table of Geographical Distribution

Species	Localities								Other localities
	Saghalien	Kurile	Hokkaido	Honshu	Shikoku	Kyushu	Lochoo	Formosa	
1. <i>Dineutes australis</i> FABRICIUS							x	x	Australia, Malay Archipelago, New Caledonia, New Zealand, Philippines
2. <i>D. marginatus</i> SHARP	x		x	x	x		x	x	China, East Indies, India, Java, Manchuria
3. <i>D. mellyi</i> RÉGIMBART							x	x	China, India
4. <i>Gyrinus curtus</i> MOTSCHULSKY	x	x	x	x	x	x			
a) var. <i>fulvescens</i> TAKIZAWA				x					
5. <i>G. gestroi</i> RÉGIMBART				x	x				
6. <i>G. japonicus</i> SHARP			x	x	x			x	

Species	Localities								Other localities
		Saghalien	Kurile	Hokkaido	Honshu	Shikoku	Kyushu	Loochoo	
7. <i>Orectochilus agilis</i> SHARP					x		x		
8. <i>O. formosanus</i> TAKIZAWA								x	
9. <i>O. punctipennis</i> SHARP					x		x	x	
10. <i>O. regimbarti</i> SHARP					x				

### 摘 要

著者は北海道帝國大學昆虫學教室に保管せらるる所の標本により、日本産鼓豆科の甲虫を研究し、十種一變種を發見したれば、之れを茲に發表せり。其の中一種並に一變種は新種及び新變種と見做し、之れを本文中に記載せり。

本邦産鼓豆の和名を記さば次の如し。

1. <i>Dineutes australis</i> FABRICIUS	シリキレオホミヅスマシ (新稱)
2. <i>D. marginatus</i> SHARP	オホミヅスマシ
3. <i>D. mellyi</i> RÉGIMBART	オキナハオホミヅスマシ
4. <i>Gyrinus curtus</i> MOTSCHULSKY	ナミミヅスマシ
a). var. <i>fulvescens</i> TAKIZAWA (var. nov.)	
5. <i>G. gestroi</i> RÉGIMBART	コミヅスマシ
6. <i>G. japonicus</i> SHARP	ヒメミヅスマシ
7. <i>Orectochilus agilis</i> SHARP	ツマキリヲナガミヅスマシ
8. <i>O. formosanus</i> TAKIZAWA (sp. nov.)	タイワンヲナガミヅスマシ (新稱)
9. <i>O. punctipennis</i> SHARP	コヲナガミヅスマシ
10. <i>O. regimbarti</i> SHARP	ヲナガミヅスマシ

尙、從來沖縄群島より知られたる *Dineutes insularis* RÉGIMBART 又同群島並に臺灣より知られたる *D. indicus* MATSUMURA (nec AUBÉ) を *D. mellyi* RÉGIMBART の異名となせり。